10/561793 IAP9 Rec'd PCT/PTO 21 DEC 2009

SEQUENCE LISTING

<110> Bayer BioScience N.V. The Regents of the University of California Yanofsky, Martin Vancanneyt, Guy Kempin, Sherry						
<120> Method and means for delaying seed shattering in Brassicaceae						
<130> BCS 03-2003						
<150> EP 03076952.5 <151> 2003-06-23						
<160> 11						
<170> PatentIn version 3.0						
<210> 1 <211> 597 <212> DNA <213> Artificial						
<220> <223> nucleotide sequence of the INDEHISCENT gene of A. thaliana (AT-IN D						
<400> 1 atggaaaatg gtatgtataa aaagaaagga gtgtgcgact cttgtgtctc gtccaaaagc 60						
agatccaacc acagccccaa aagaagcatg atggagcctc agcctcacca tctcctcatg 120						
gattggaaca aagctaatga tcttctcaca caagaacacg cagcttttct caatgatcct 180						
caccatctca tgttagatcc acctcccgaa accctaattc acttggacga agacgaagag 240						
tacgatgaag acatggatgc gatgaaggag atgcagtaca tgatcgccgt catgcagccc 300						
gtagacatcg accetgecae ggteeetaag eegaacegee gtaaegtaag gataagegae 360						
gateeteaga eggtggttge tegteggegt egggaaagga teagegagaa gateegaatt 420						
ctcaagagga tcgtgcctgg tggtgcgaag atggacacag cttccatgct cgacgaagcc 480						
atacgttaca ccaagttctt gaaacggcag gtgaggattc ttcagcctca ctctcagatt 540						
ggagctccta tggctaaccc ctcttacctt tgttattacc acaactccca accctga 597						
<210> 2 <211> 643 <212> DNA <213> Artificial						
<220> <223> Nucleotide sequence of a INDEHISCENT homologue from Brassica napu						

s (BN1-IND

<400> 2						
gaattcgccc	ttcgcatgta	taaaaagaag	ggtctatgcg	tctctagtcc	aaaaactcta	60
tatgtctggt	tcaaaagcag	atgcagcagc	catagcccca	atagtcatga	tggagcctca	120
tcatctcctt	atgaactgga	acaaacctat	tgatctcatt	acacaagaaa	actcttttaa	180
ccacaatcct	catttcatgg	tagatccacc	ttccgaaacc	ctaagccact	tccagccccc	240
gccgacagtc	ttctccgatc	ccggaggagg	agaggaagca	gaagacgaag	aaggagagga	300
agagatagat	gagatgaagg	agatgcaata	cgcgattgct	gccatgcagc	ccgtagacat	360
cgatccagcc	accgttccta	agccgaaccg	ccgtaacgta	agggtaagcg	aggaccccca	420
gacggtggtg	gctcgtcggc	gtagagaaag	gataagcgag	aagatccgga	tattgaagag	480
gatggtgcca	ggcggtgcaa	agatggacac	tgcctccatg	cttgacgaag	ccatccgcta	540
caccaagttc	ttgaaacggc	aggtgaggct	tcttcagcct	cacactcagc	ttggggctcc	600
tatgtctgac	ccttctcgcc	tttgttatta	ccacaactct	caa		643

<210> 3

<211> 660

<212> DNA

<213> Artificial

<220>

<223> nucleotide sequence of a second INDEHISCENT homologue from Brassi ca napus (BN2-IND

<400> 3 gaattegeee ttggeatgta caagaagaaa ggtetatgeg tetetagtee aaaaacteta 60 tatatgtctg gctcaaaagc agatgcagcc atagccccaa tagtcatgat ggagcatcat 120 catctcctta tgaattggaa caaacctatt gatctcatta cagaagaaaa ctcttttaac 180 cacaatcctc atttcatagt agatccacct tccgaaaccc taagccactt ccagcccccg 240 ccgacaatct tctccggtca cggaggagga gaggaagcag cagaagaaga agaagaagaa 300 ggagaggaag agatggatcc gatgaagaag atgcaatacg cgattgctgc catgcagccc 360 gtagacctcg atccagccac cgttcctaag ccgaaccgcc gtaacgtaag ggtaagcgac 420 gaccctcaga cggtggtggc tcgtcggcgt agagaaagga taagcgagaa gatccggata 480 ttgaggagga tggtgccagg cggtgcaaag atggacactg cctccatgct cgacgaagcc 540 atcogotaca ccaagttott gaaacggcag gtgaggctag cttottcago ctcacactca 600 gcttggaget cetatgtetg accettettg cetttgttat tateataact egeageeetg 660

```
<210> 4
<211> 20
<212> DNA
<213> Artificial
<220>
      common nucleotide sequence of oligonucleotides CO109/CO111
<223>
<400> 4
aggtctatgc gtctctagtc
                                                                     20
<210> 5
<211> 20
<212> DNA
<213> artificial
<220>
<223> common nucleotide sequence of oligonucleotides CO110/CO112
<400> 5
tcttcttctg ctgcttcctc
                                                                     20
<210> 6
<211> 20
<212> DNA
<213> Artificial
<220>
      common nucleotide sequence of oligonucleotides CO113/CO114
<223>
<400> 6
cctctccttc ttcgtcttct
                                                                     20
<210> 7
<211> 20
<212> DNA
<213> Artificial
<220>
<223> common nucleotide sequence of oligonucleotides CO115/CO117
<400> 7
aggagtgtgc gactcttgtg
                                                                     20
<210> 8
<211>
      19
<212> DNA
<213> Artificial
<220>
<223> common nucleotide sequence of oligonucleotides CO116/CO118
```

<400> tcttcgt	8 cctt	cgtccaagt					19
<210><211><211><212><212><213>	9 895 DNA Arti	ficial					
<220> <223>	nucl		ence of the	∍ SHATTERPRO	OOF 1 gene o	of A. thaliana	(AT
<400>	9						
ggatcaa	atgg	aggaaggtgg	gagtagtcac	gacgcagaga	gtagcaagaa	actagggaga	60
gggaaaa	atag	agataaagag	gatagagaac	acaacaaatc	gtcaagttac	tttctgcaaa	120
cgacgca	aatg	gtcttctcaa	gaaagcttat	gaactctctg	tcttgtgtga	tgccgaagtt	180
gccctc	gtca	tcttctccac	tcgtggccgt	ctctatgagt	acgccaacaa	cagtgtgagg	240
ggtacaa	attg	aaaggtacaa	gaaagcttgt	tccgatgccg	tcaaccctcc	ttccgtcacc	300
gaagcta	aata	ctcagtacta	tcagcaagaa	gcctctaagc	ttcggaggca	gattcgagat	360
attcaga	aatt	caaataggca	tattgttggg	gaatcacttg	gttccttgaa	cttcaaggaa	420
ctcaaaa	aacc	tagaaggacg	tcttgaaaaa	ggaatcagcc	gtgtccgctc	caaaaagaat	480
gagctgt	tag	tggcagagat	agagtatatg	cagaagaggg	aaatggagtt	gcaacacaat	540
aacatgt	tacc	tgcgagcaaa	gatagccgaa	ggcgccagat	tgaatccgga	ccagcaggaa	600
tcgagtg	gtga	tacaagggac	gacagtttac	gaatccggtg	tatcttctca	tgaccagtcg	660
cagcatt	tata	atcggaacta	tattccggtg	aaccttcttg	aaccgaatca	gcaattctcc	720
ggccaac	gacc	aacctcctct	tcaacttgtg	taactcaaaa	catgataact	tgtttcttcc	780
cctcata	aacg	attaagagag	agacgagaga	gttcatttta	tatttataac	gcgactgtgt	840
attcata	agtt	taggttctaa	taatgataat	aacaaaactg	ttgtttcttt	gcttc	895
<210><211><211><212><213>		ificial					
<220> <223>	nuc]	_	uence of the	SHATTERPRO	OOF 2 gene o	of A. thaliana	(AT
<400>	10	tecestecte	acttetett	ctttctcatc	ataattaato	ttactaaacc	60

agctagggct tatagaaatg gagggtggtg cgagtaatga agtagcagag agcagcaaga 120 agatagggag agggaagata gagataaaga ggatagagaa cactacgaat cgtcaagtca 180 ctttctgcaa acgacgcaat ggtttactca agaaagctta tgagctctct gtcttgtgtg 240 acgetgaggt tgetettgte atetteteca etegaggeeg tetetacgag tacgecaaca 300 acagtgtgag aggaacaata gaaaggtaca agaaagcttg ctccgacgcc gttaaccctc 360 cgaccatcac cgaagctaat actcagtact atcagcaaga ggcgtctaaa ctccggagac 420 agattoggga cattoagaat ttgaacagao acattottgg tgaatotott ggttoottga 480 actttaagga actcaagaac cttgaaagta ggcttgagaa aggaatcagt cgtgtccgat 540 ccaagaagca cgagatgtta gttgcagaga ttgaatacat gcaaaaaagg gaaatcgagc 600 tgcaaaacga taacatgtat ctccgctcca agattactga aagaacaggt ctacagcaac 660 aagaatcgag tgtgatacat caagggacag tttacgagtc gggtgttact tcttctcacc 720 agtcggggca gtataaccgg aattatattg cggttaacct tcttgaaccg aatcagaatt 780 cctccaacca agaccaacca cctctgcaac ttgtttgatt cagtctaaca taagcttctt 840 tecteageet gagategate tatagtgtea cetaaatgeg geegegteee teaacateta 900 gtcgcaagct gaggggaacc actagtgtca tacgaacctc caagagacgg ttacacaaac 960 ggg 963

<210> 11

<211> 931

<212> DNA

<213> Artificial

<220>

<223> nucleotide sequence of the ALCATRAZ gene of A. thaliana (AT-ALC)

<400> 11 agagagagag agagagagag agatgggtga ttetgaegte ggtgategte ttececetee 60 atcttcttcc gacgaactct cgagctttct ccgacagatt ctttcccgta ctcctacagc 120 tcaaccttct tcaccaccga agagtactaa tgtttcctcc gctgagacct tcttcccttc 180 cgtttccggc ggagctgttt cttccgtcgg ttatggagtc tctgaaactg gccaagacaa 240 atatgettte gaacacaaga gaagtggage taaacagaga aattegttga agagaaacat 300 tgatgeteaa tteeacaact tgtetgaaaa gaagaggagg agcaagatea acgagaaaat 360 gaaagetttg cagaaactca tteecaatte caacaagaet gataaageet caatgettga 420

tgaagctata	gaatatctga	agcagcttca	acttcaagtc	cagactttag	ccgttatgaa	480
tggtttaggc	ttaaacccta	tgcgattacc	acaggttcca	cctccaactc	atacaaggat	540
caatgagacc	ttagagcaag	acctgaacct	agagacțett	ctcgctgctc	ctcactcgct	600
ggaaccagċt	aaaacaagtc	aaggaatgtg	cttttccaca	gccactctgc	tttgaagata	660
acattcagac	aatgatgatg	atcggaattc	ctctagtacc	tgccagacag	gagtgaacaa	720
tgttttgagt	tttagcattg	gccagatttc	tatgttcagt	tatagttatg	ctaataagct	780
ttaggagtga	acaaaatctg	agtagtttga	ttataatgat	gtctgaagca	gattatatat	840
aaaagactaa	tttacttaca	tatgagatga	ttattacaac	tatcaaatga	ctatgtctgt	900
gagttgcatc	caaaaaaaaa	aaaaaaaaa	a			931